

NTRD Program Disclaimers

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**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report**

Contract Number: 582-5-70807-M031

Grantee: Extengine Transport Systems, LLC

Date Submitted: August 11, 2005

Report for the **Monthly** period:

Starting Date 7/1/05 Ending Date 7/31/05

Section I. Accomplishments *(Please provide a bulleted list of project accomplishments as well as a description of their importance to the project.)*

Task 1:

- Continuing with engine selection – target engine group is 1998-2003 250-400 Hp). Candidate engine is DD60, Cummins, or Mack with 300-350 HP rating used in garbage trucks and other vehicles with low speed stop and go duty cycles.
- Continuing with catalyst configuration specification.
- Follow-up teleconference with RTI regarding test requirements including methods of aging test hardware.
- Received active Diesel Particulate Filter hardware – conducted field installation as part of our training on freightliner prototype truck (not part of this contract project).
- Fabricated test stand for SCR and DPF catalysts and auxiliary equipment associated with each system (computer, pumps, sensors and valves).
- Began initial bench tests of NOx sensors to establish software algorithm for self-learning system

Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:

These accomplishments relate to preparation of test hardware and the initiation of testing. Work to date is required prior to start of testing. These charges are not billable at this time. A no charge FSR is attached with this report.

Section II: Problems/Solutions

<p>Problem(s) Identified</p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	<p>None identified at this time</p>
<p>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p>Not applicable</p>
<p>Action(s) Conducted and Results</p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	<p>Not applicable</p>

Section III. Goals and Issues for Succeeding Period: *(Please provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen)*

Goals:

- Complete negotiation on program test protocol between RTI, SwRI, EPA and ARB.
- Submit final EPA and ARP test plan documents
- Acquire test engine and remaining test hardware
- Continue tests of SCR control software with self-learning feature using bench prototypes
- Issue PO to RTI

Issues:

- Establishing SCR self-learning algorithm.



August 10, 2005

Date: _____

Authorized Project Representative's Signature

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*